

Figure 1

METHOD AND SYSTEM FOR ACCORDING PREFERRED TRANSPORT
 BASED ON NODE IDENTIFICATION
 DOCKET NO.: 026215-00004
 Kurt A. DOBBINS

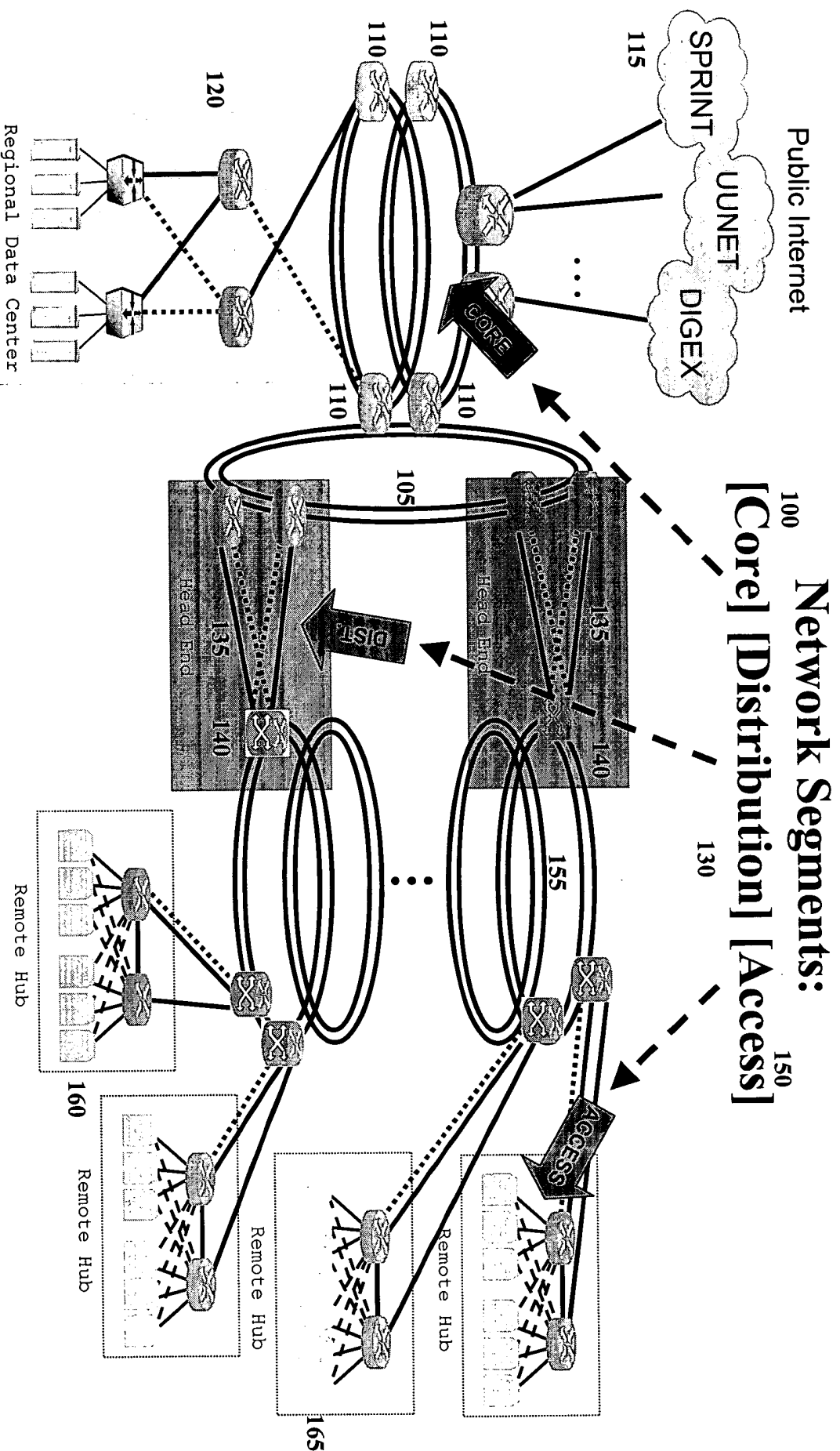


Figure 2

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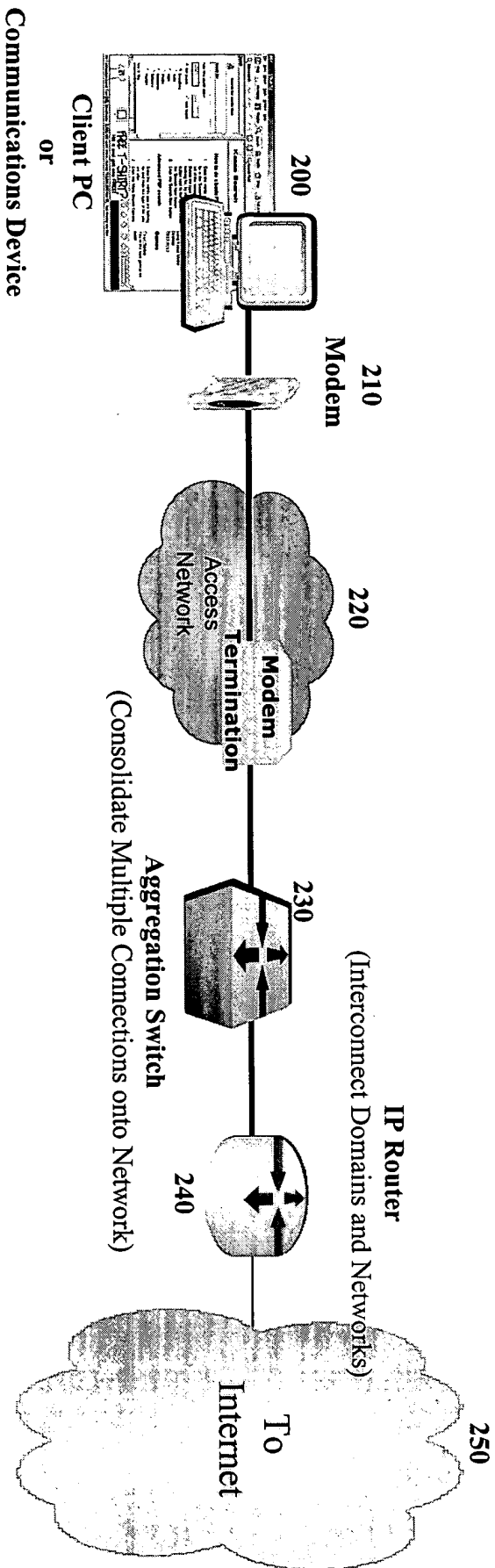


Figure 3

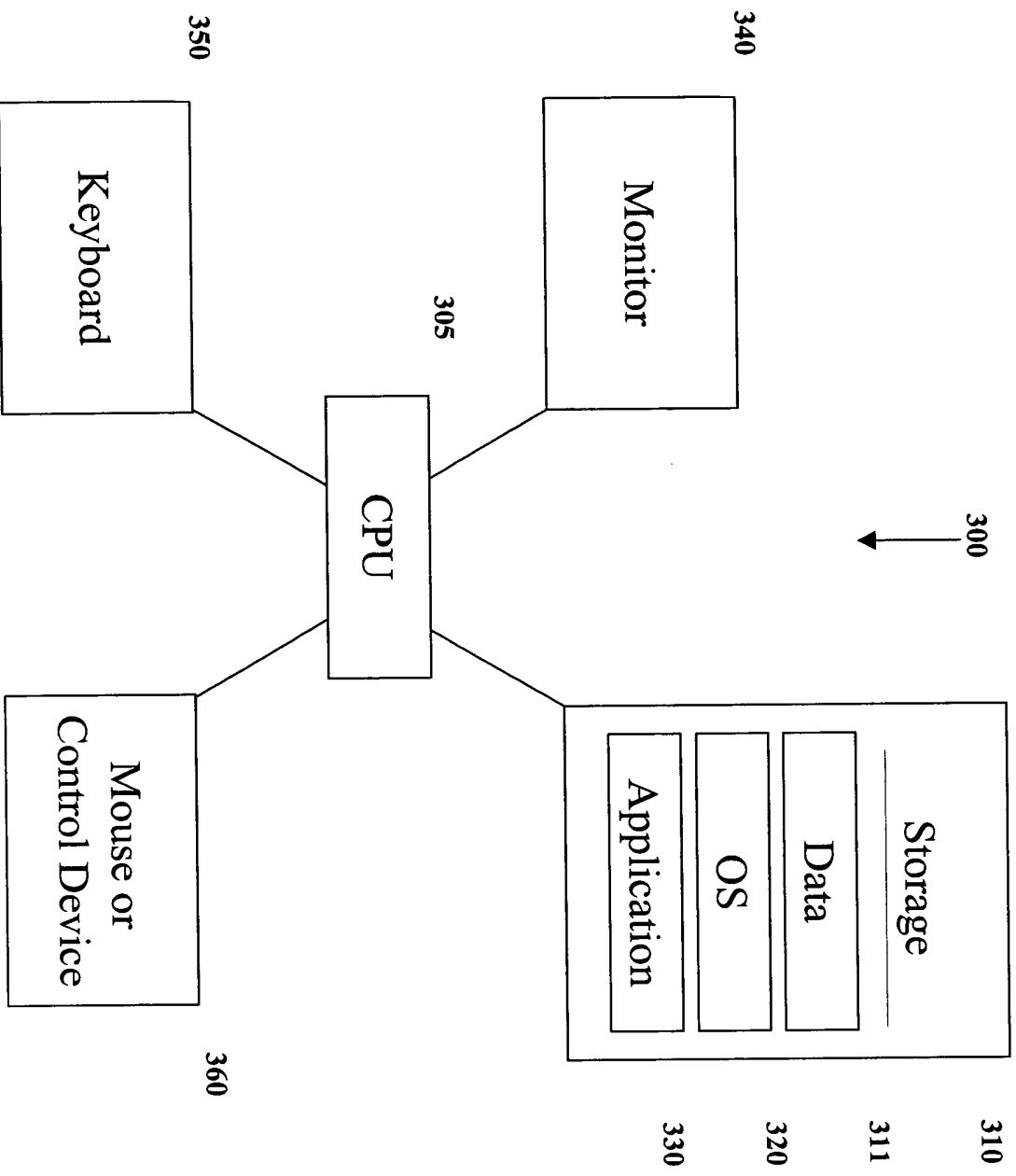


Figure 4

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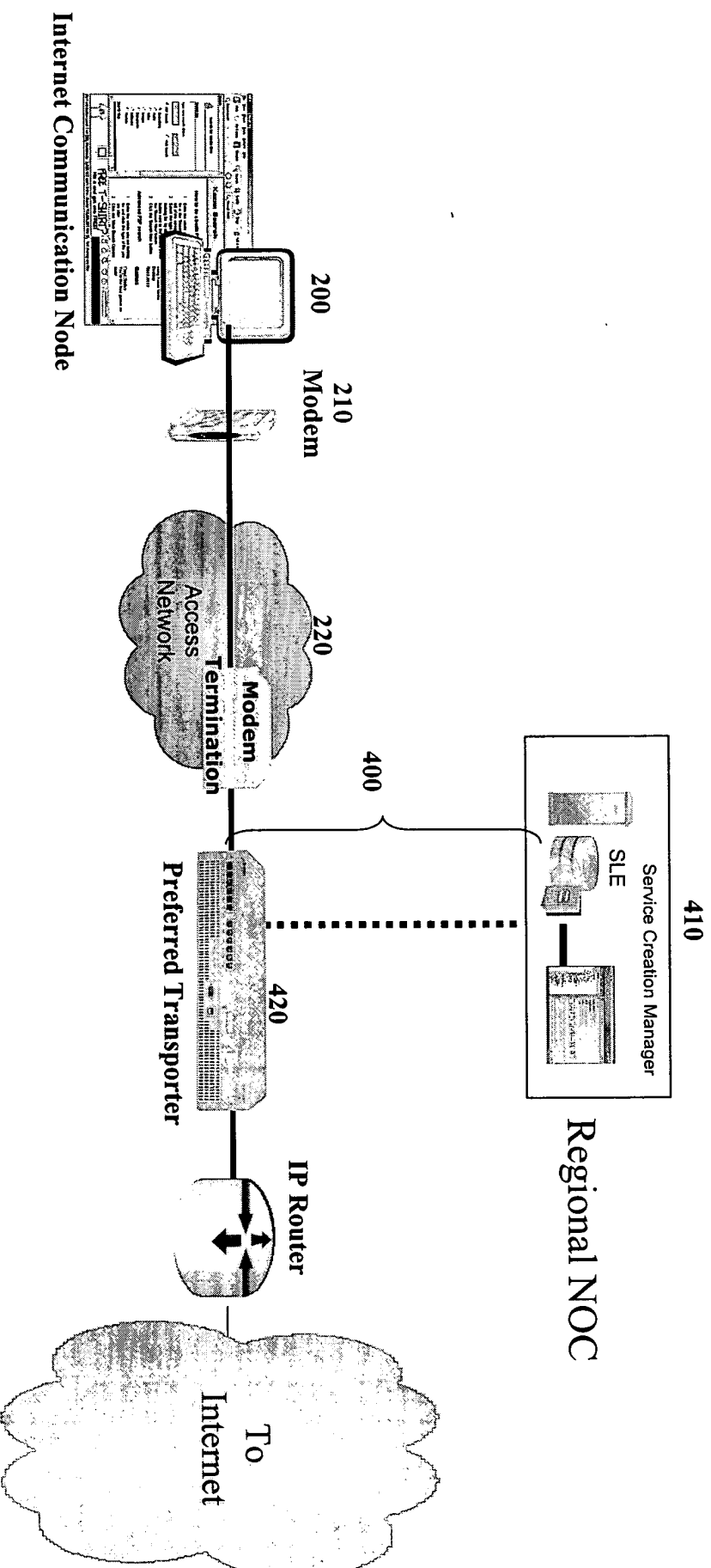


Figure 5

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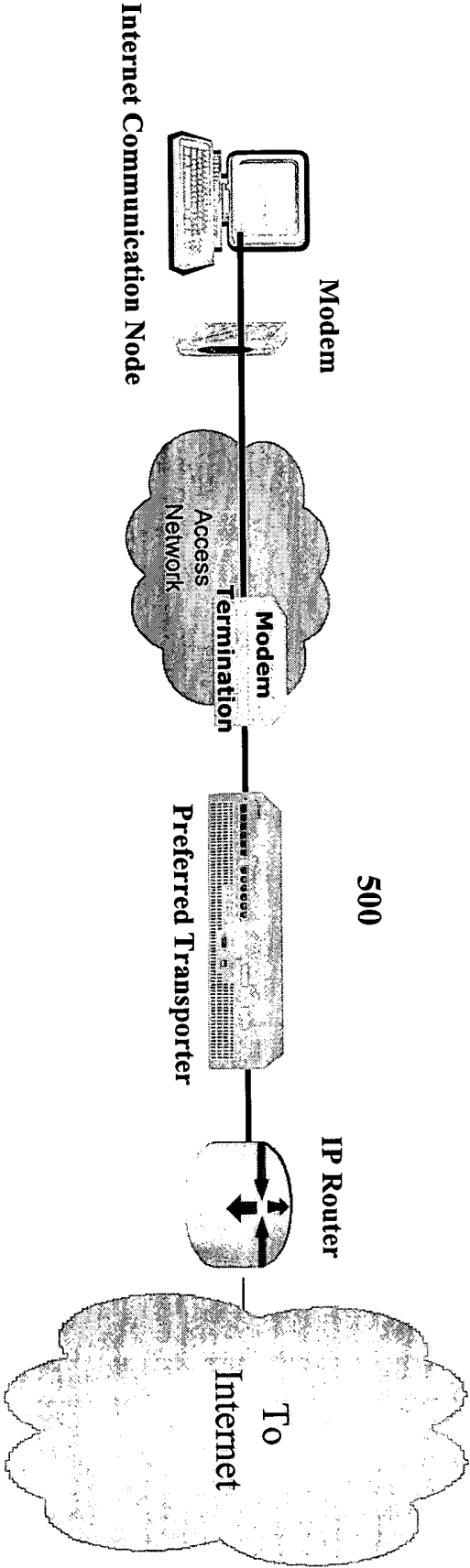


Figure 6

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In Client/Server
networks, nodes
act only as clients

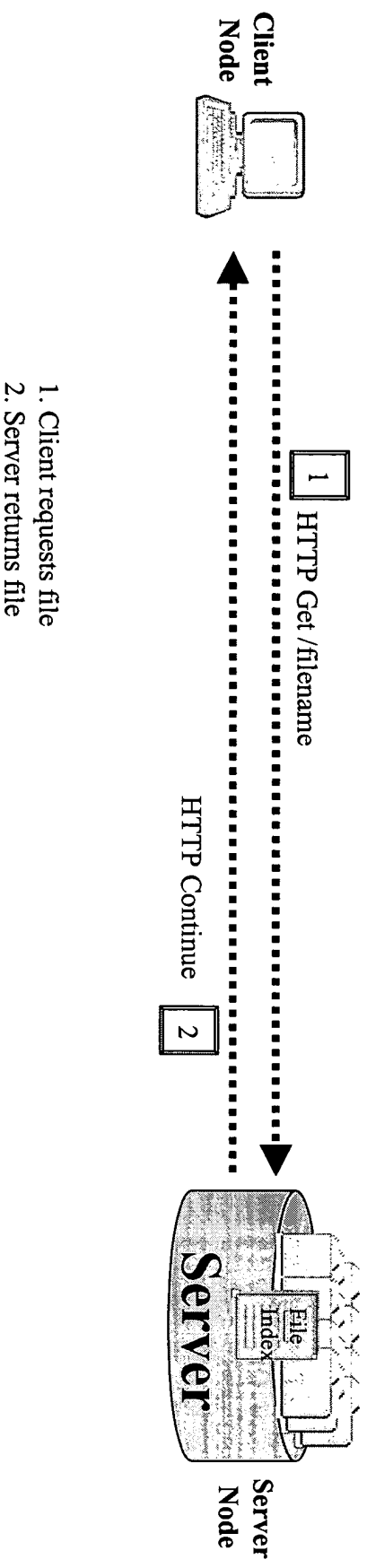


Figure 7

METHOD AND SYSTEM FOR ACCORDING PREFERRED TRANSPORT
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**In Client/Server
networks, nodes
act only as clients**

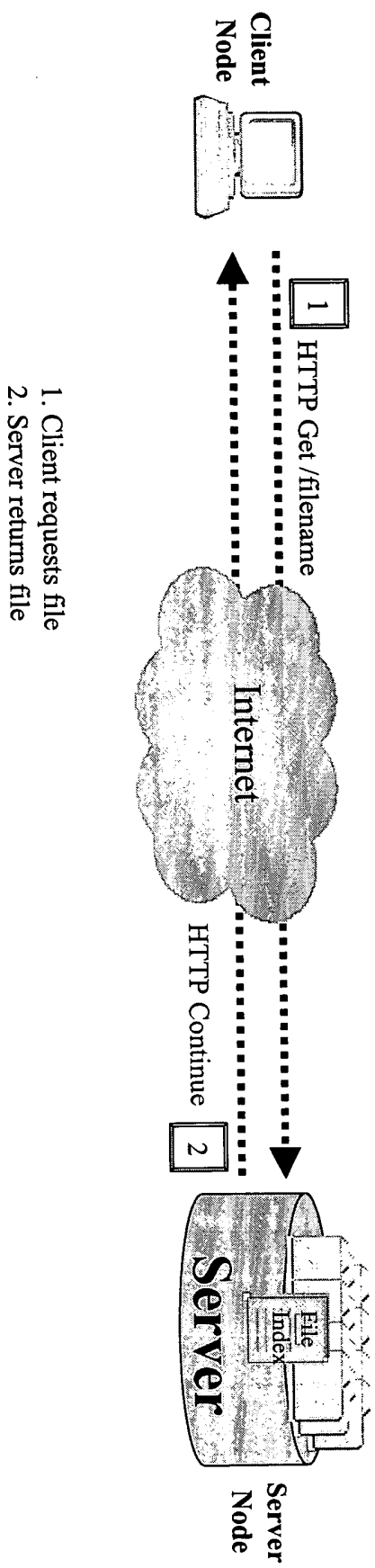


Figure 8

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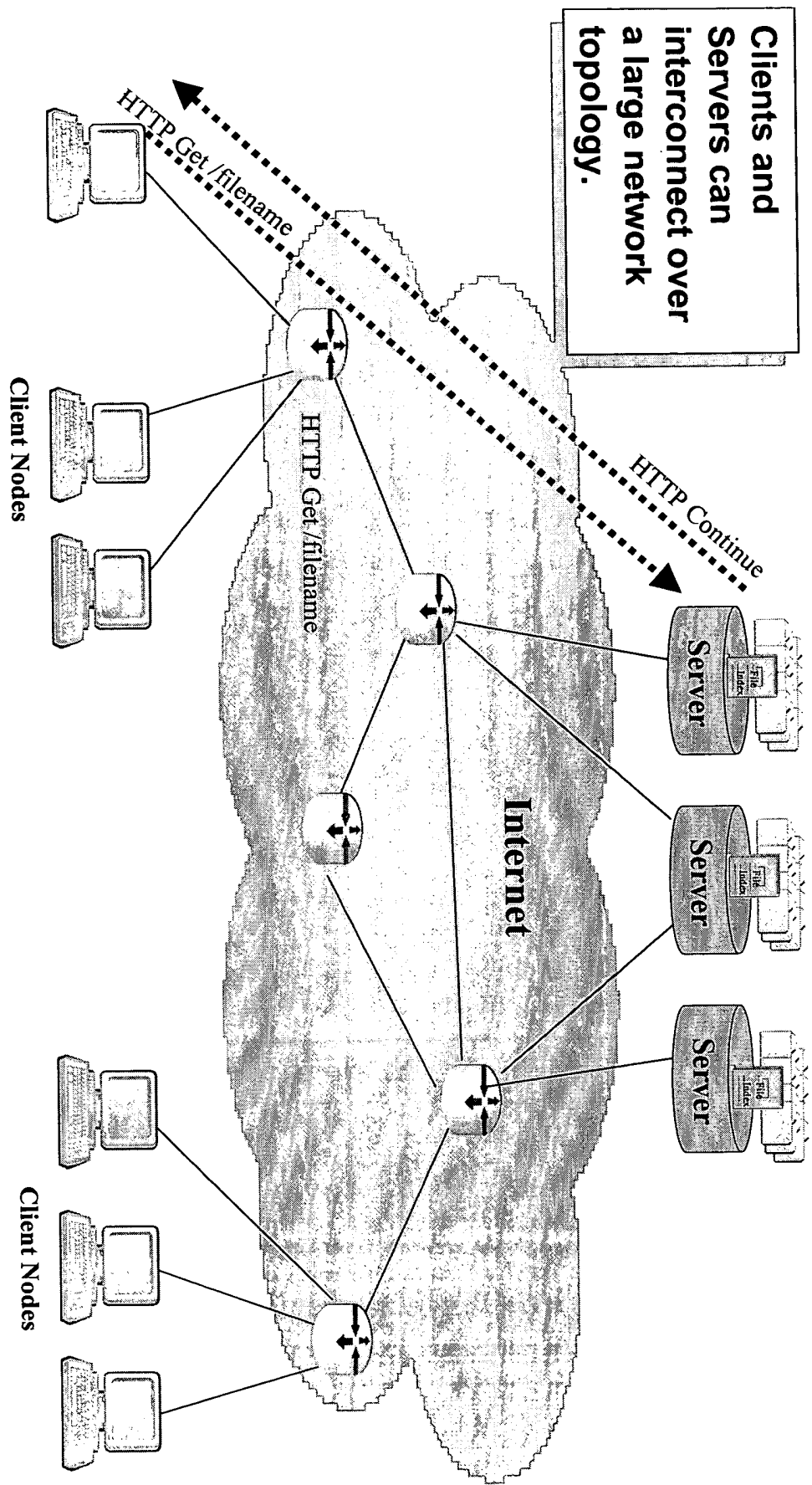


Figure 9

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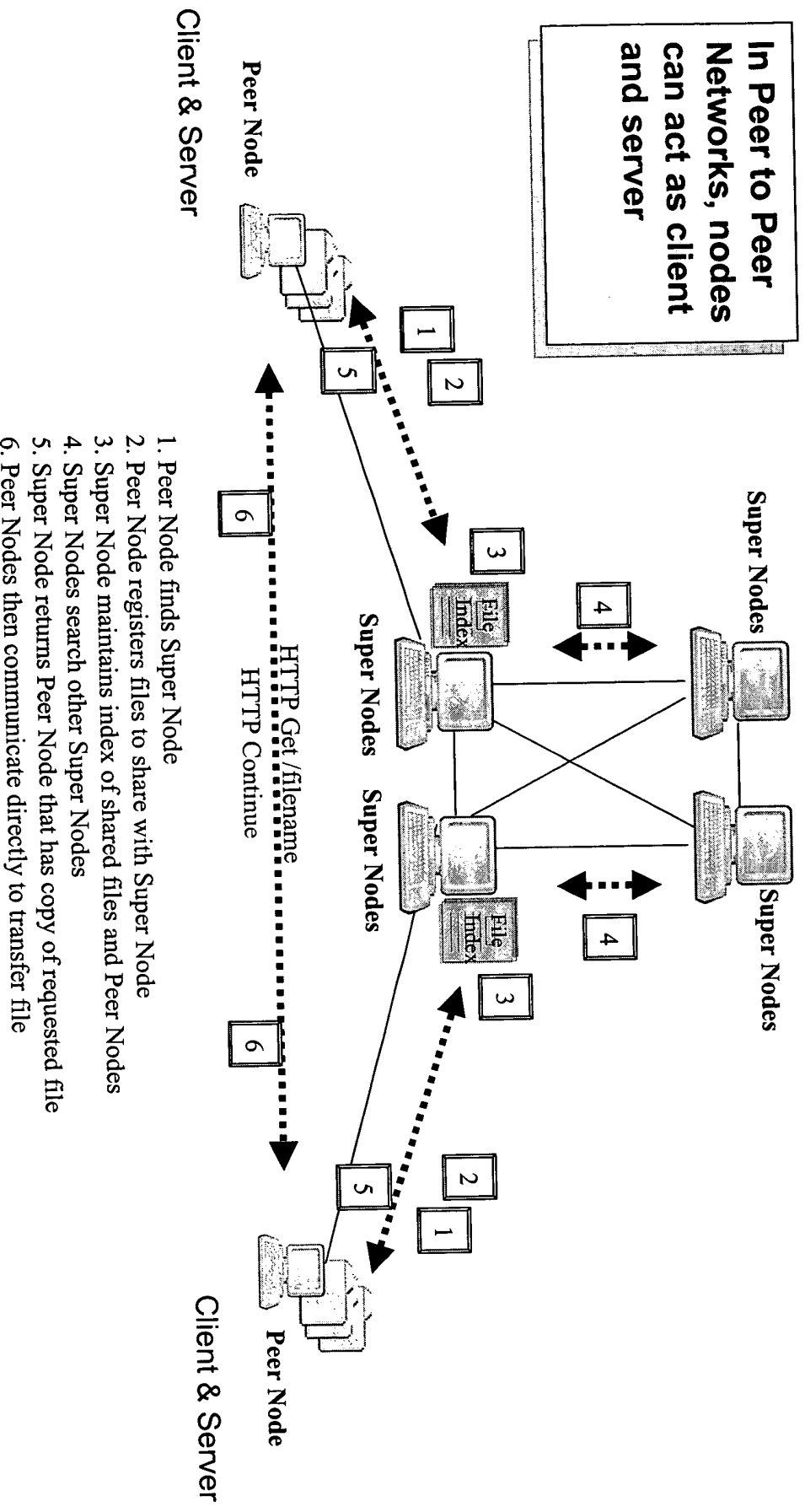
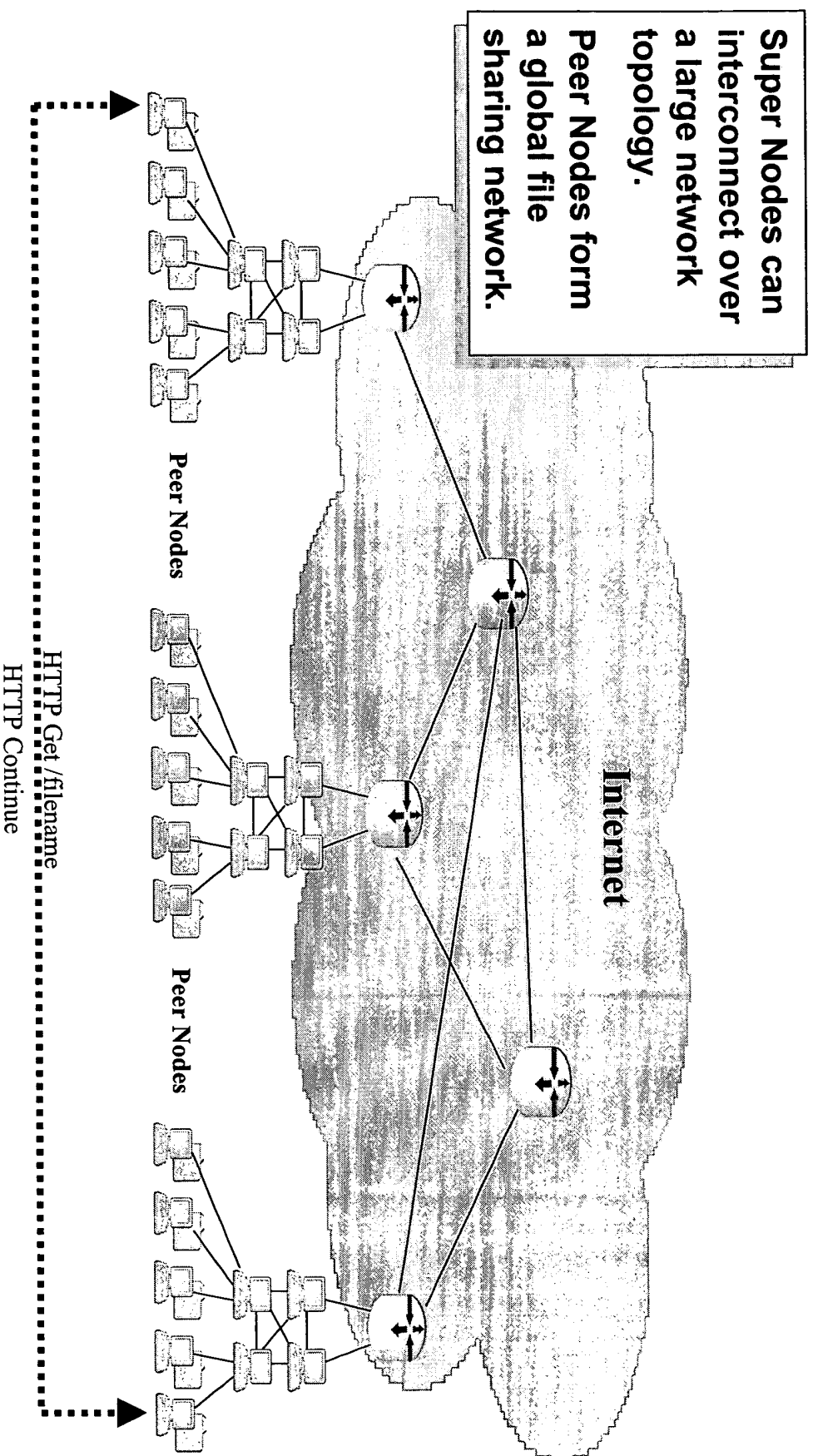
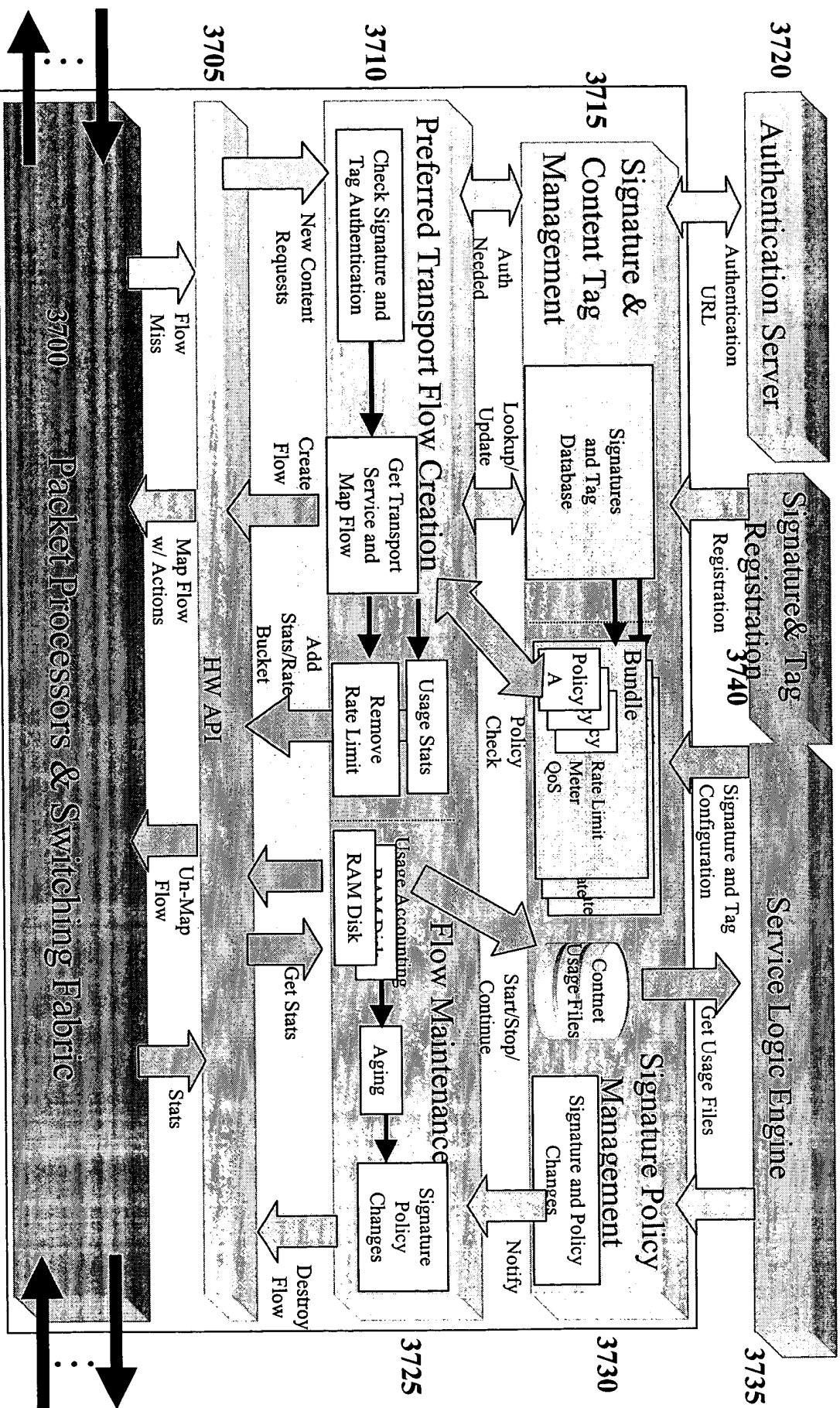


Figure 10

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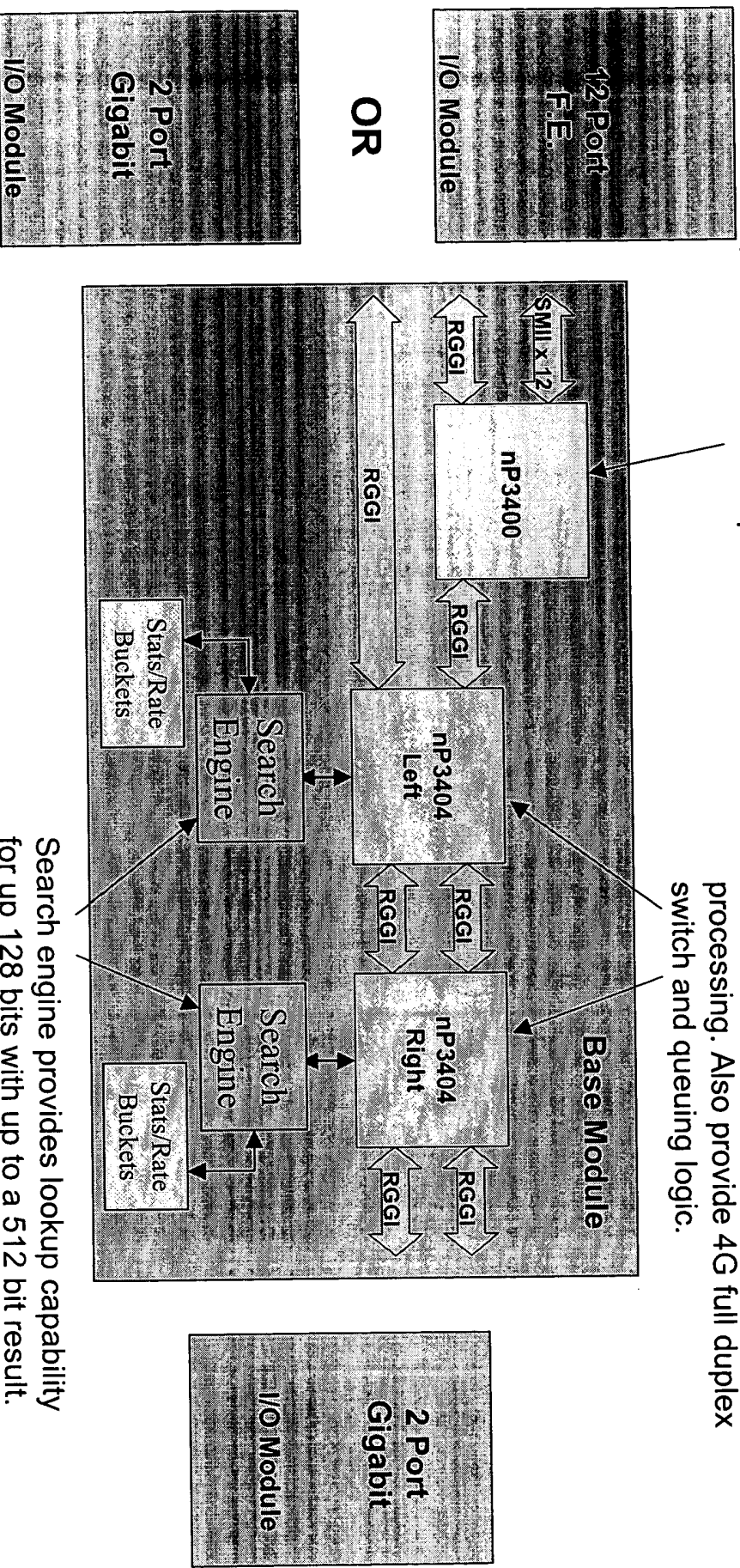
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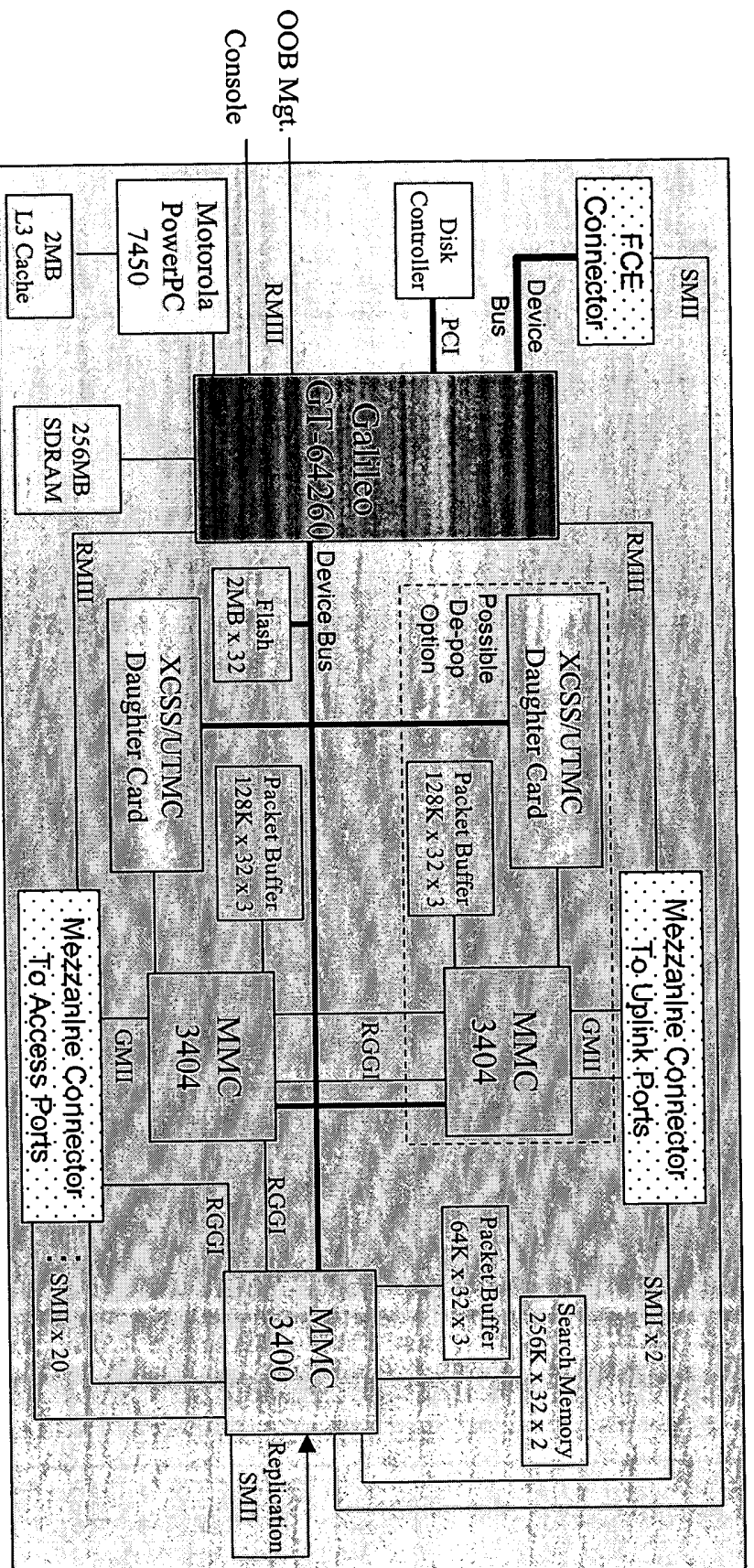
MMC nP3400 used for F.E. aggregation and L3 multi-cast replication

MMC nP3404 used as network processing engines. Extract keys and perform packet processing. Also provide 4G full duplex switch and queuing logic.



Search engine provides lookup capability for up to 128 bits with up to a 512 bit result. Also provides rate limiting and statistics functions.

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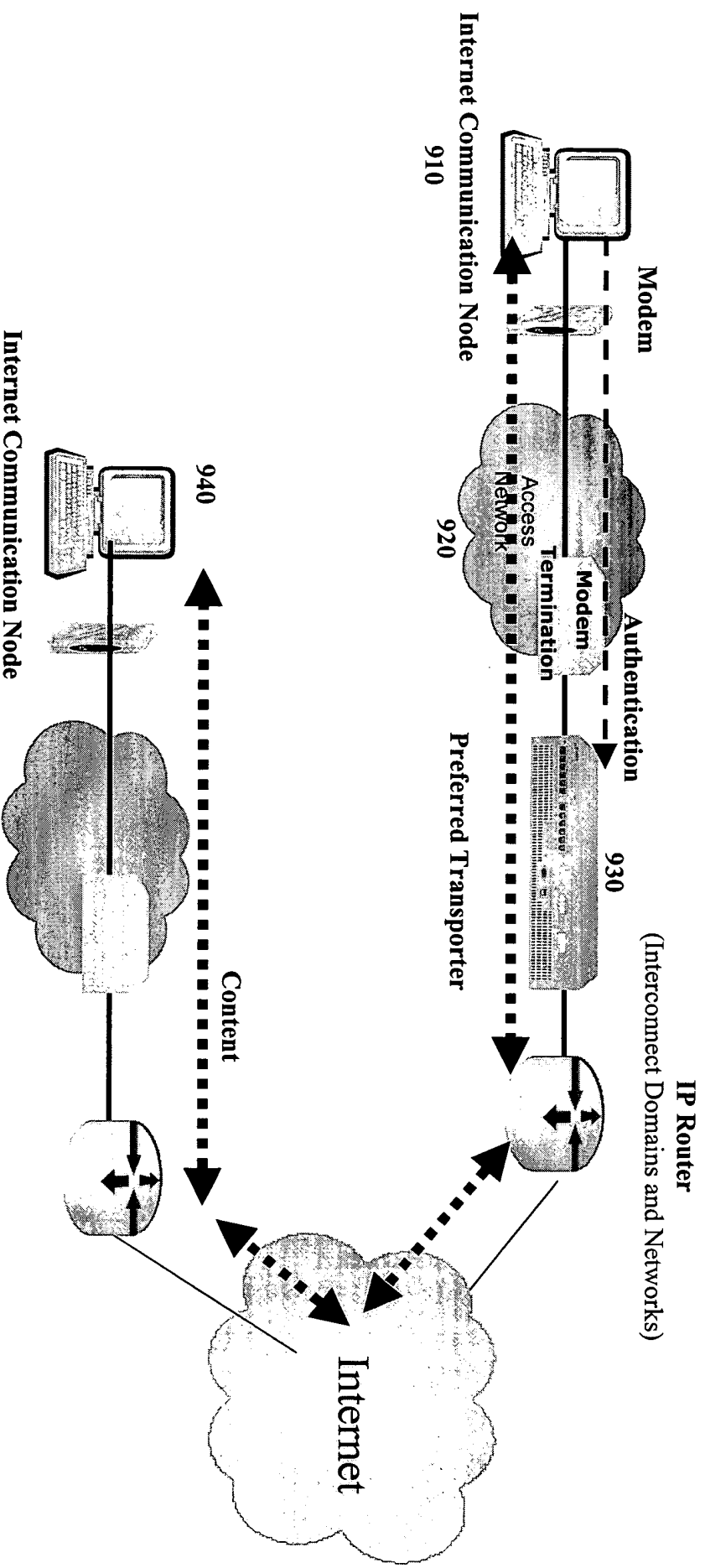


Figure 15

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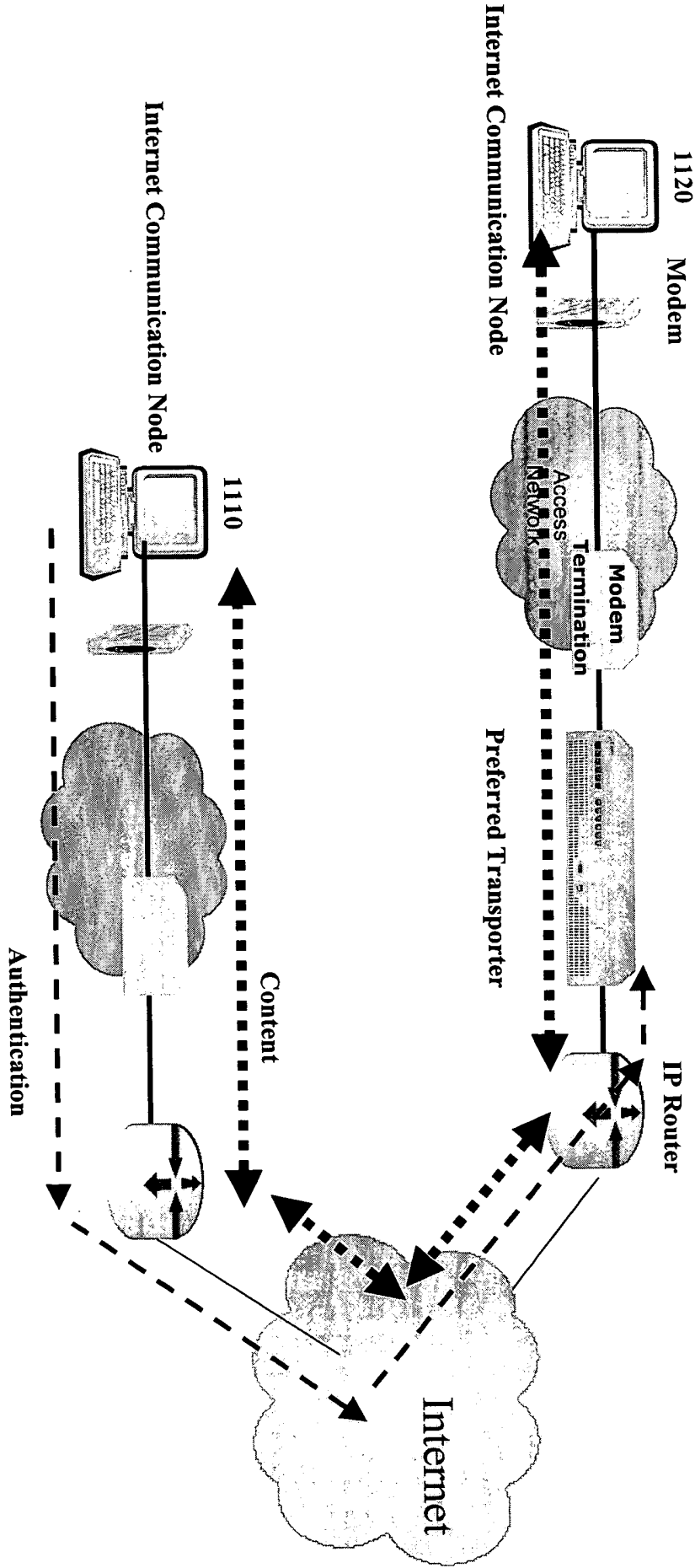
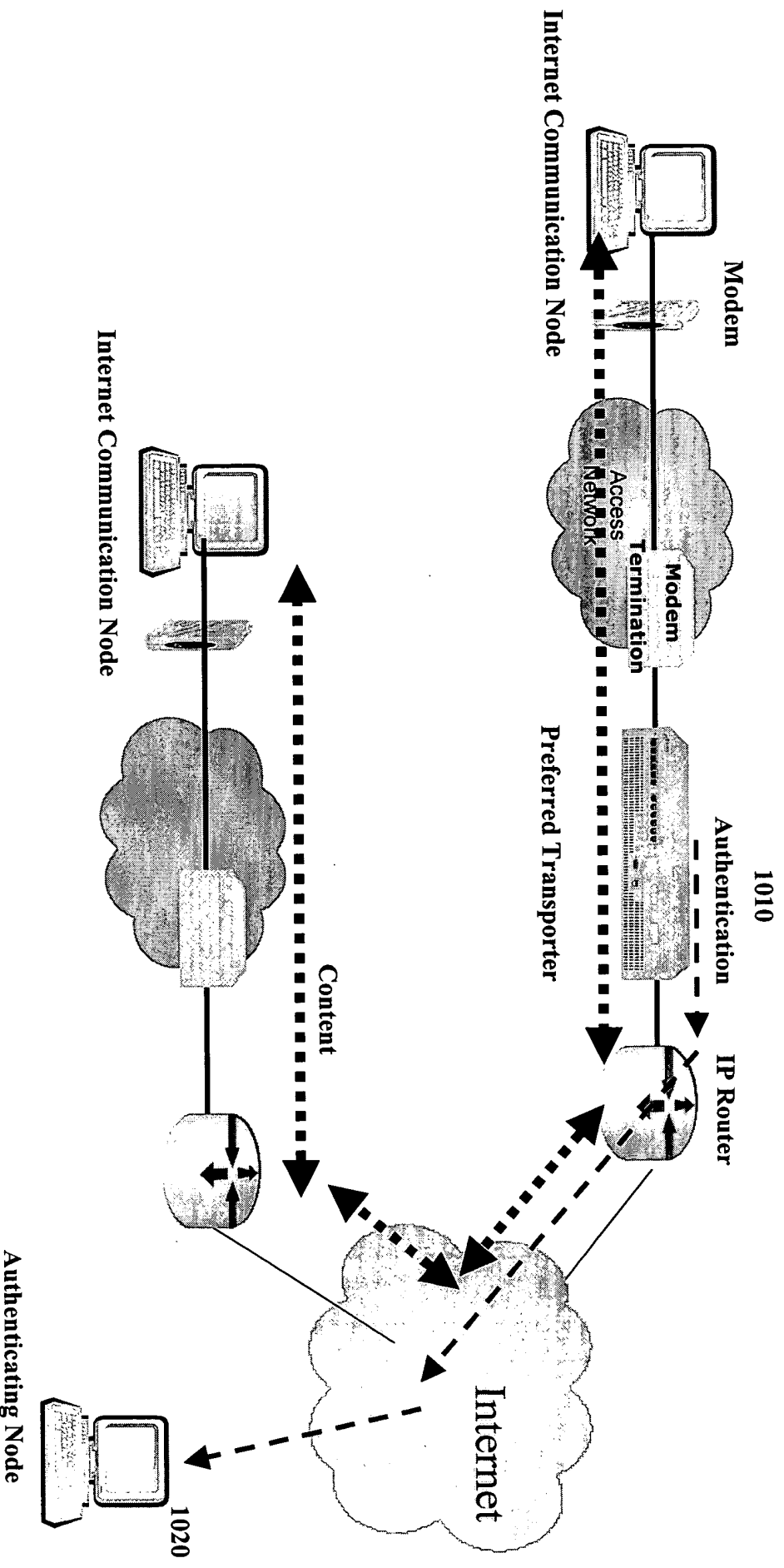


Figure 16

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1	2	3	4	5	6	7	8	9	0	1	1	1	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2													
Tag Identifier				Tag Length				Tag Version				Reserved				Transport Service				Authenticated Transport				Reserved																							
Content Class/Type Encoded OID																																Content Application Encoded OID															
Content Originator Encoded OID																																Content Meta Data Encoded OID															
Authentication URL																																															

Figure 18

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Field	Length (bytes)	Description	Comments
Tag ID	4	Well-known tag identifier. Allows different tag types to be supported	Value set to "AUTH"
Tag Length	4	Indicates the remaining length of the tag.	Maximum Length of 128 bytes
Tag Version	4	Version of Tag Structure	Value set to "1.0"
Reserved	4	Reserved for Future Use	Unused
Transport Service	4	Preferred Transport Bit Mask for Transport Service Preference.	1 = No Rate Limit 2 = No Byte Cap 4 = On-Demand BW 8 = BLOCK ACCESS
Authenticated Transport	4	Digital Signature used to authenticate preferred transport	
Reserved	8	Reserved for Future Use	Unused
Content Class/Type	16	OID syntax from Content Class naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Application	16	OID syntax from Application naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Originator	16	OID syntax from Content Originator naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Meta Data	16	OID syntax from Content Meta Data naming tree.	Encoded using ASN.1 BER {tag/len/value}
Authentication URL	32	URL of authentication server	

Figure 19

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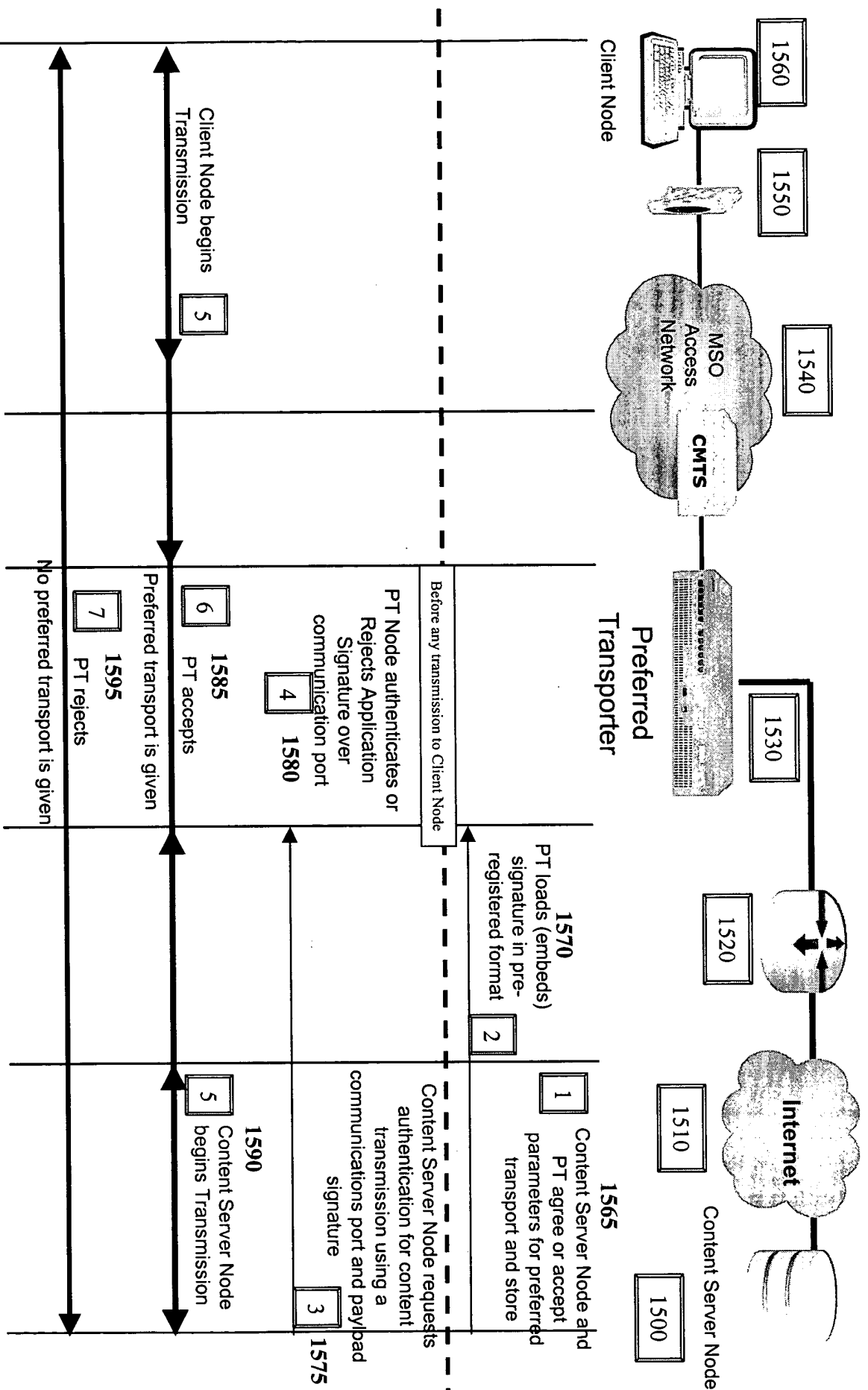


Figure 19a

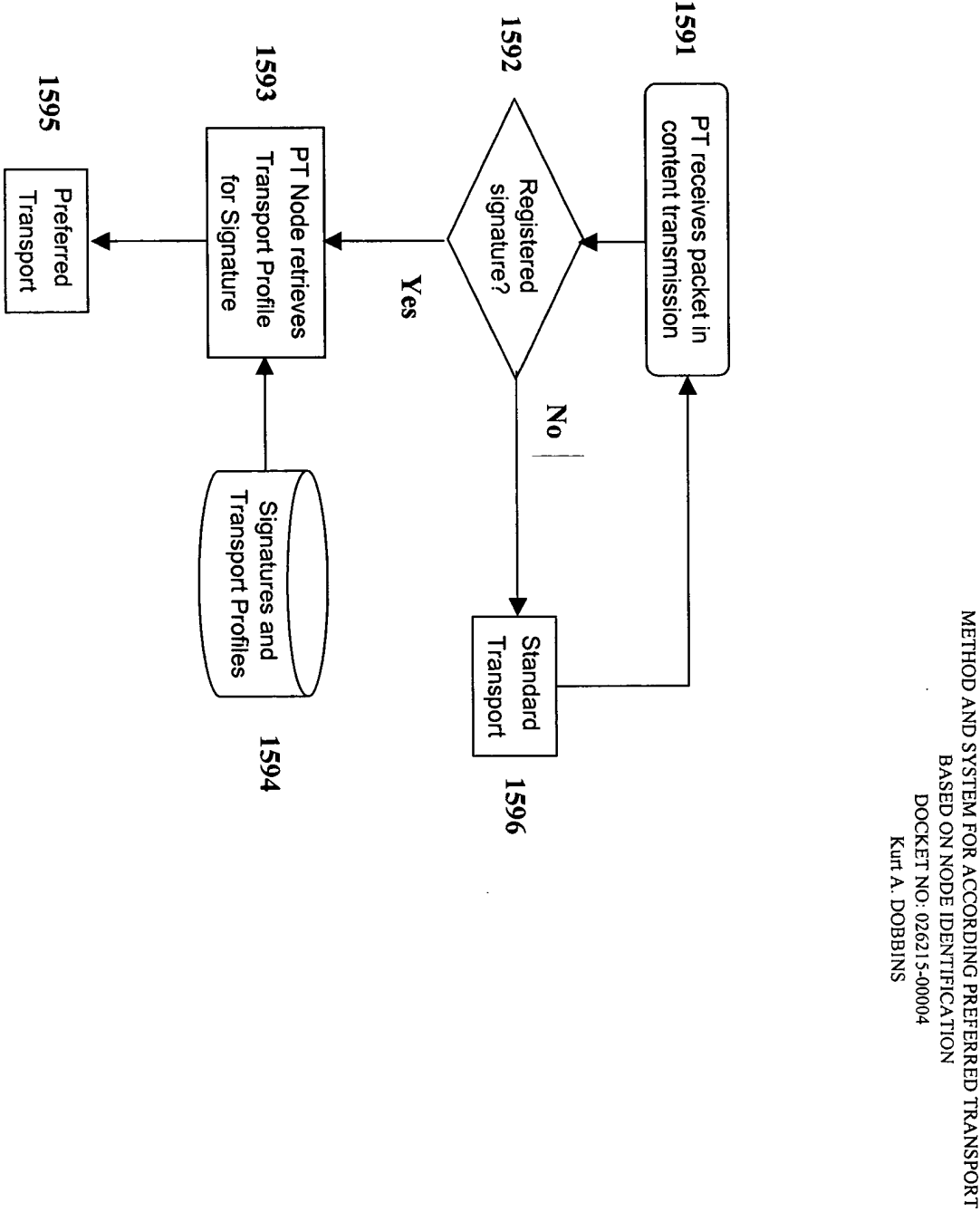


Figure 20

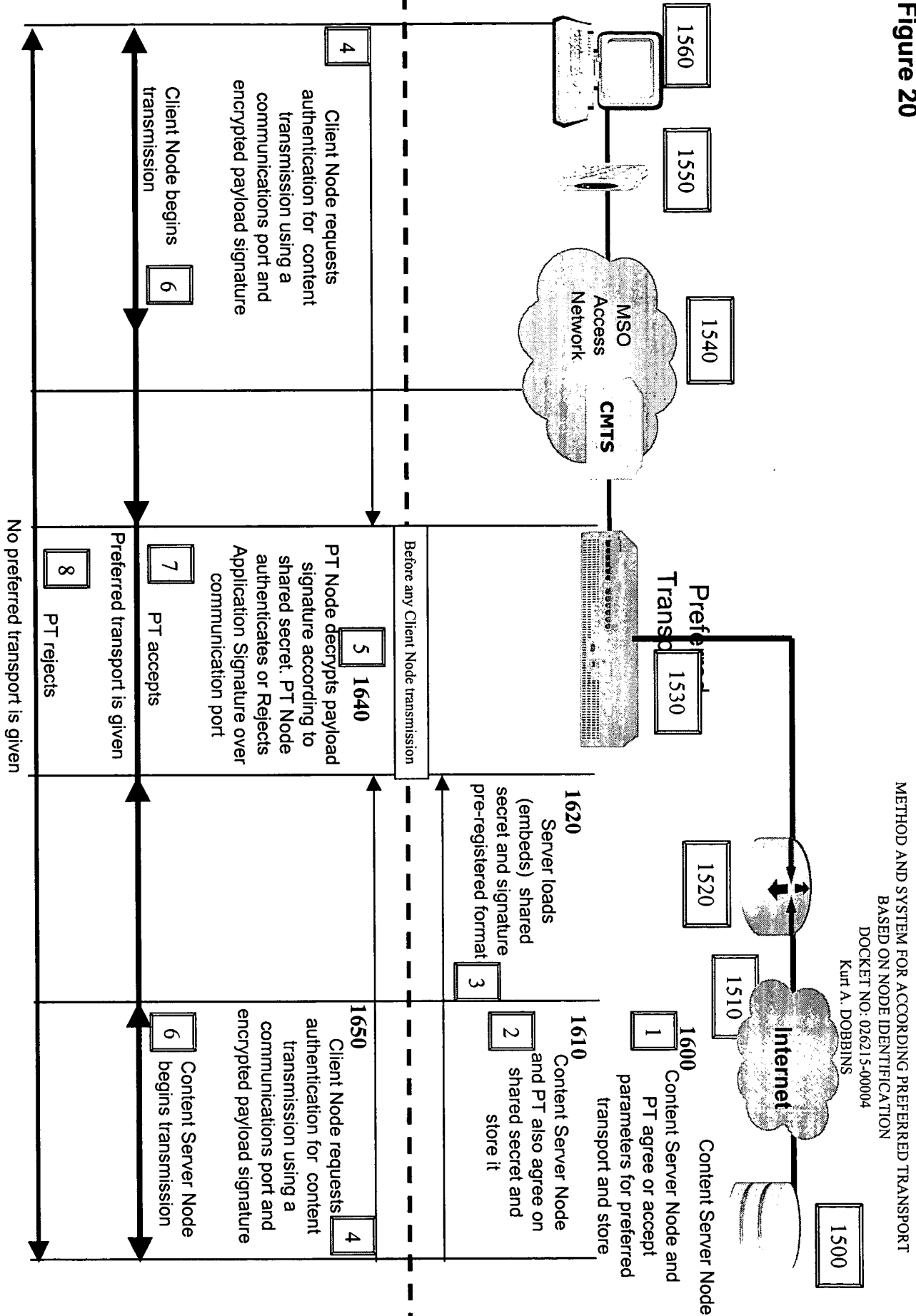


Figure 20a

METHOD AND SYSTEM FOR ACCORDING PREFERRED TRANSPORT
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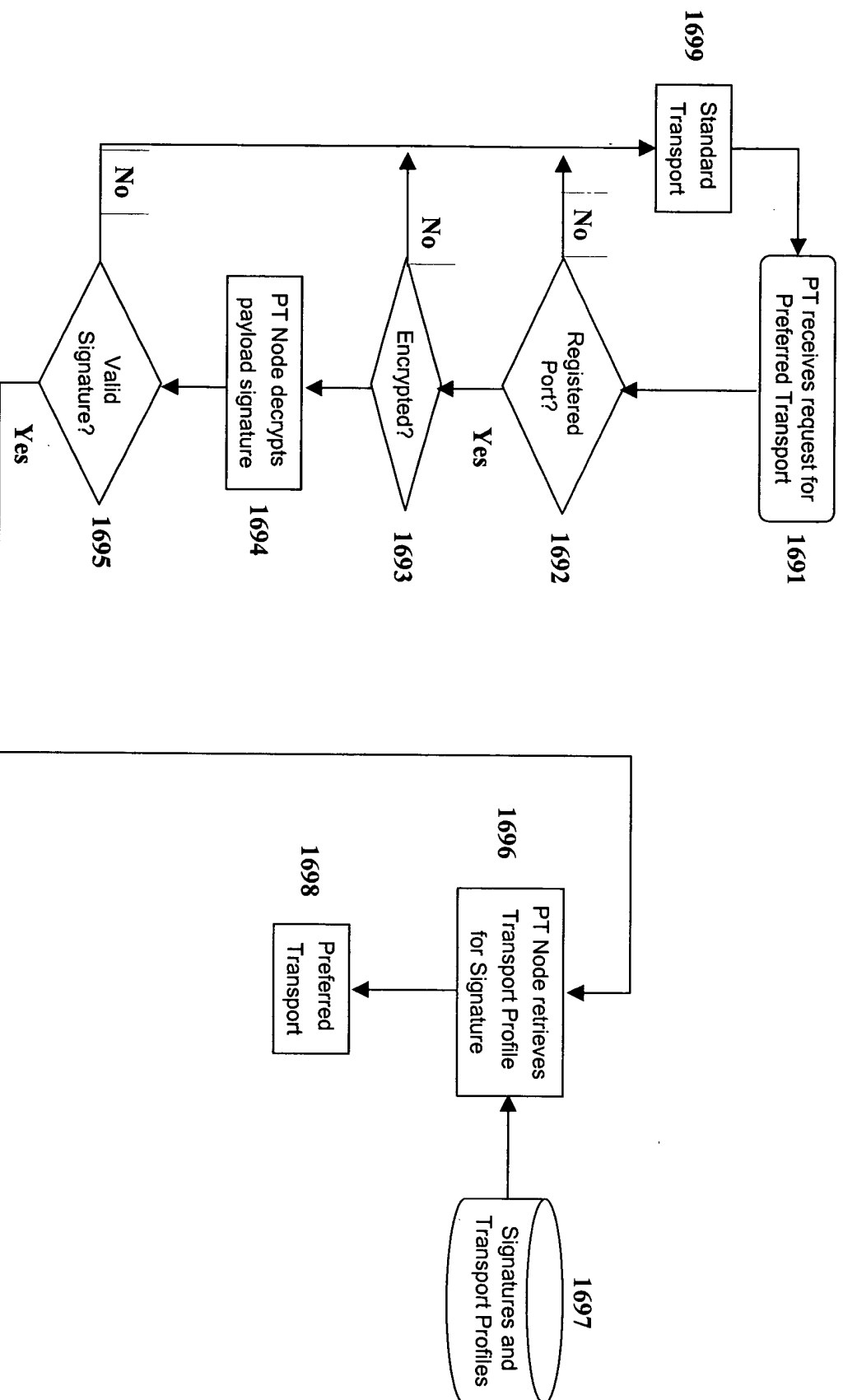


Fig 21

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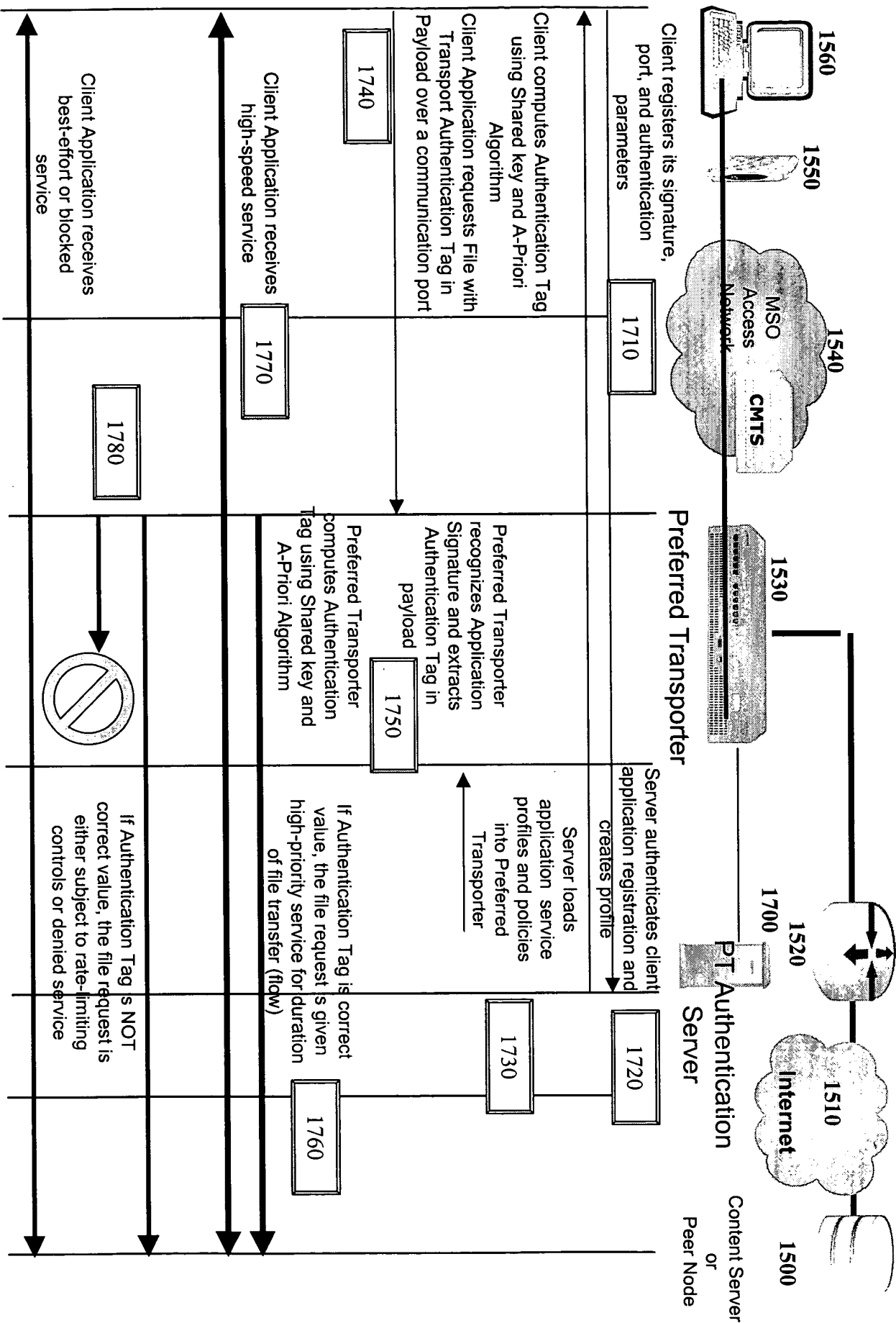


Figure 21a

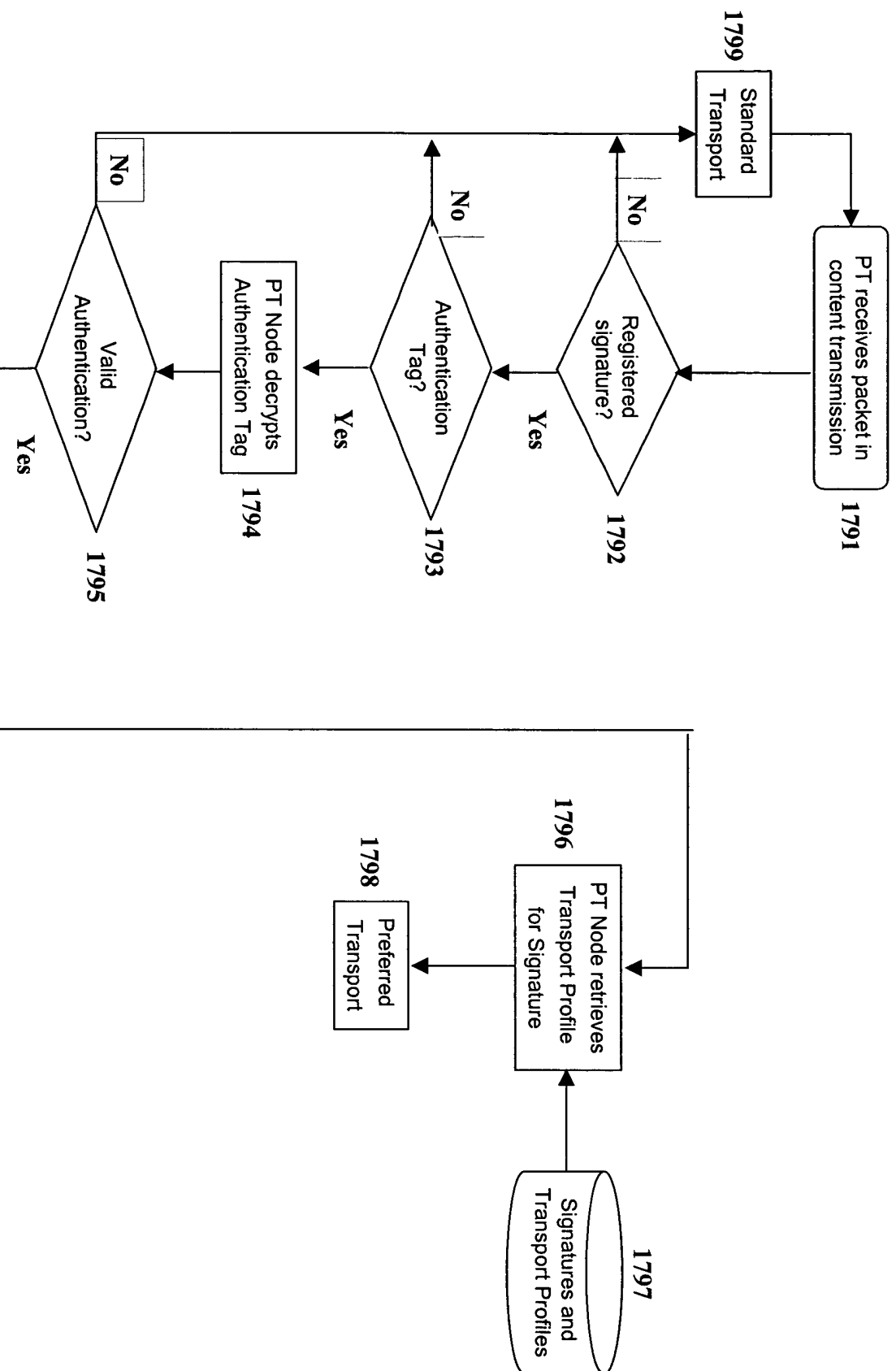


Figure 22

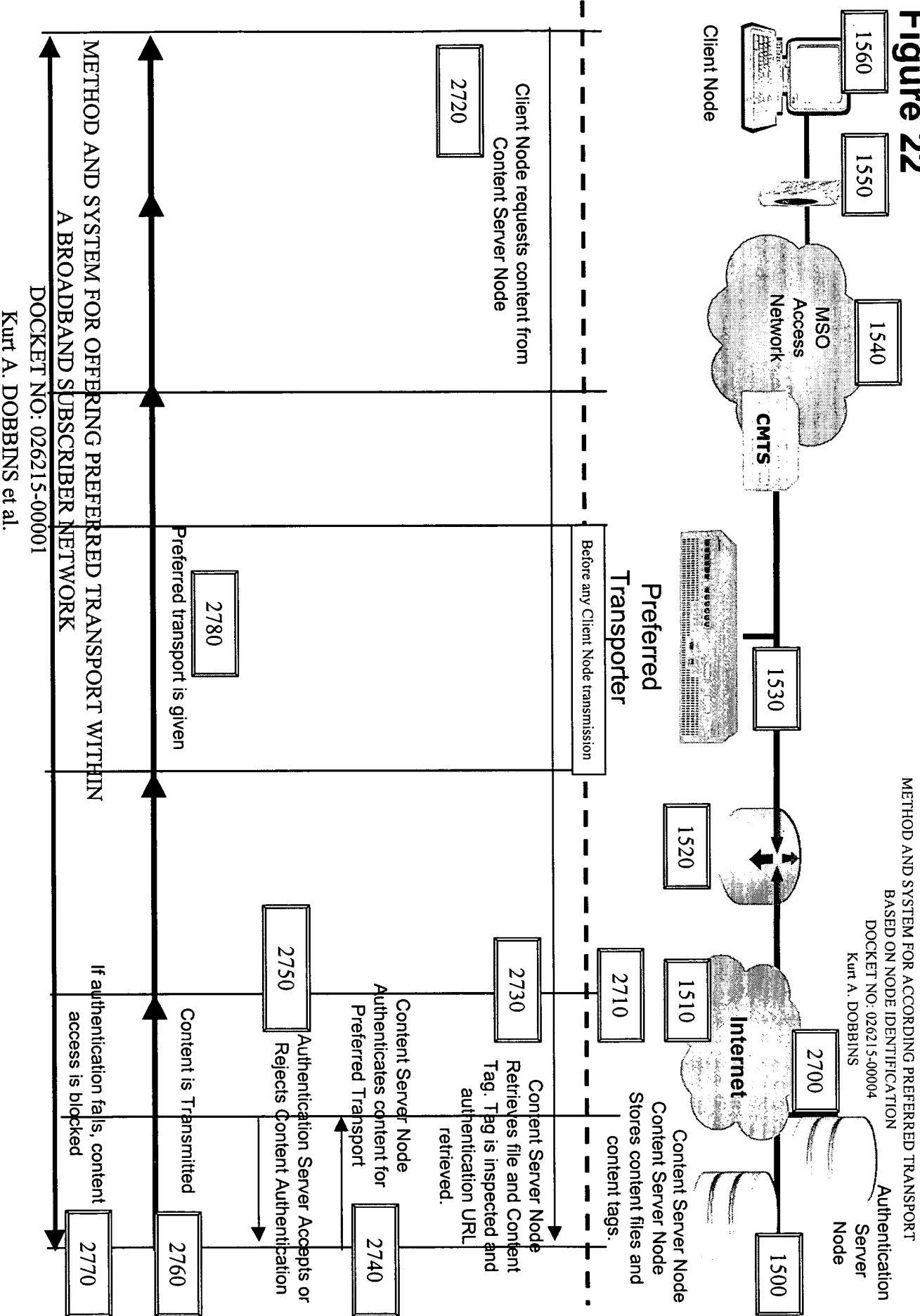


Figure 22a

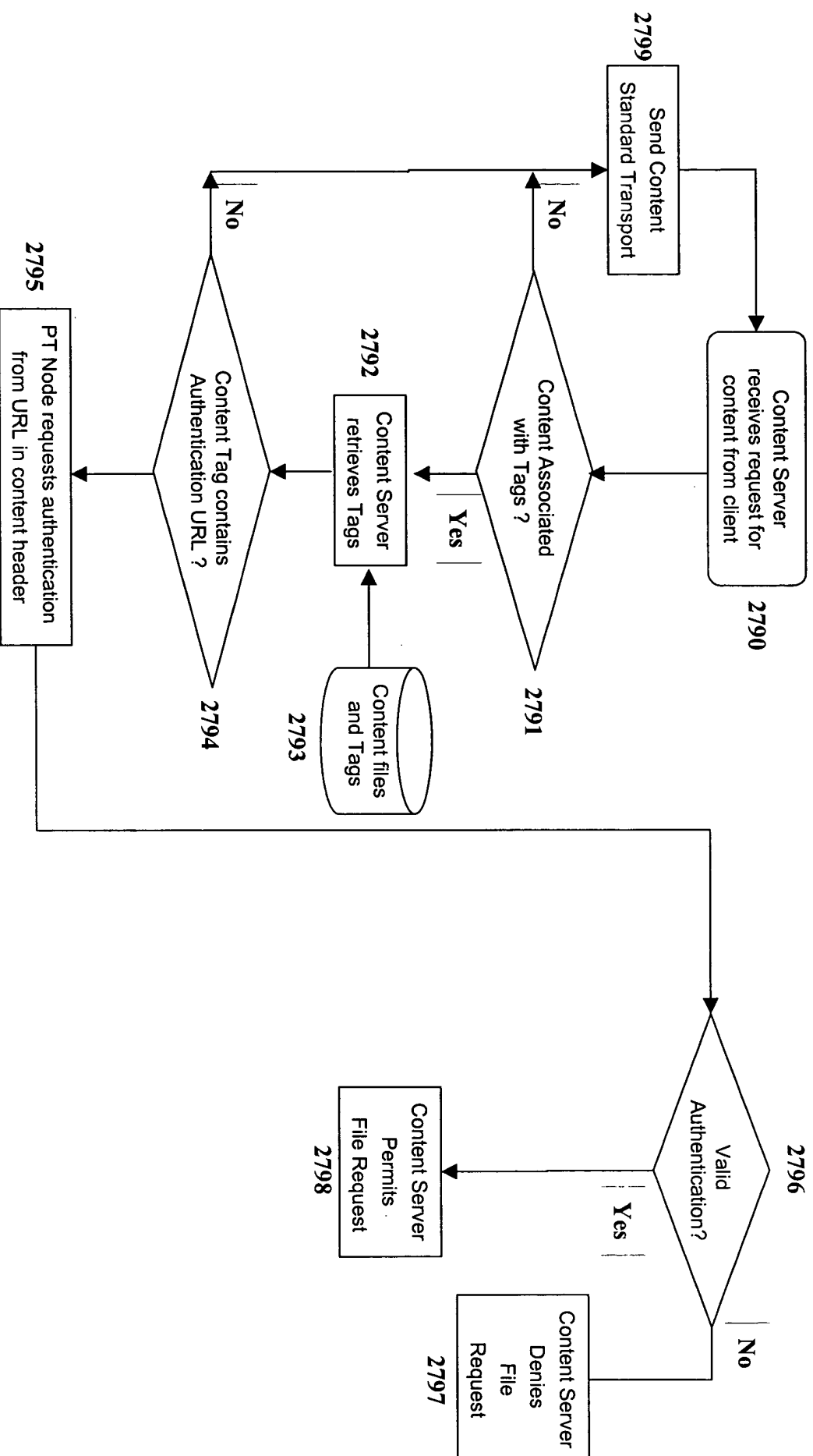


Figure 23

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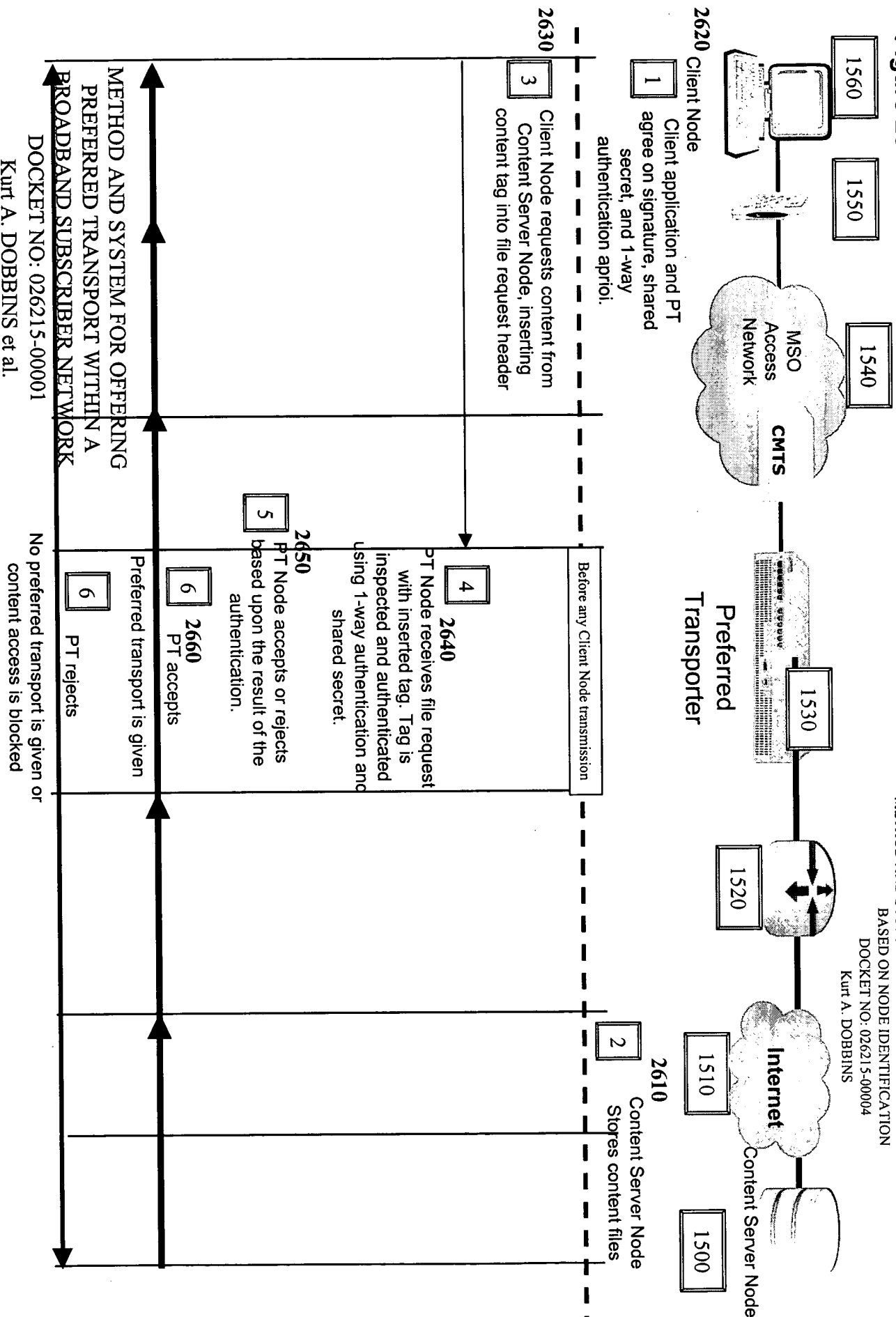


Figure 23a

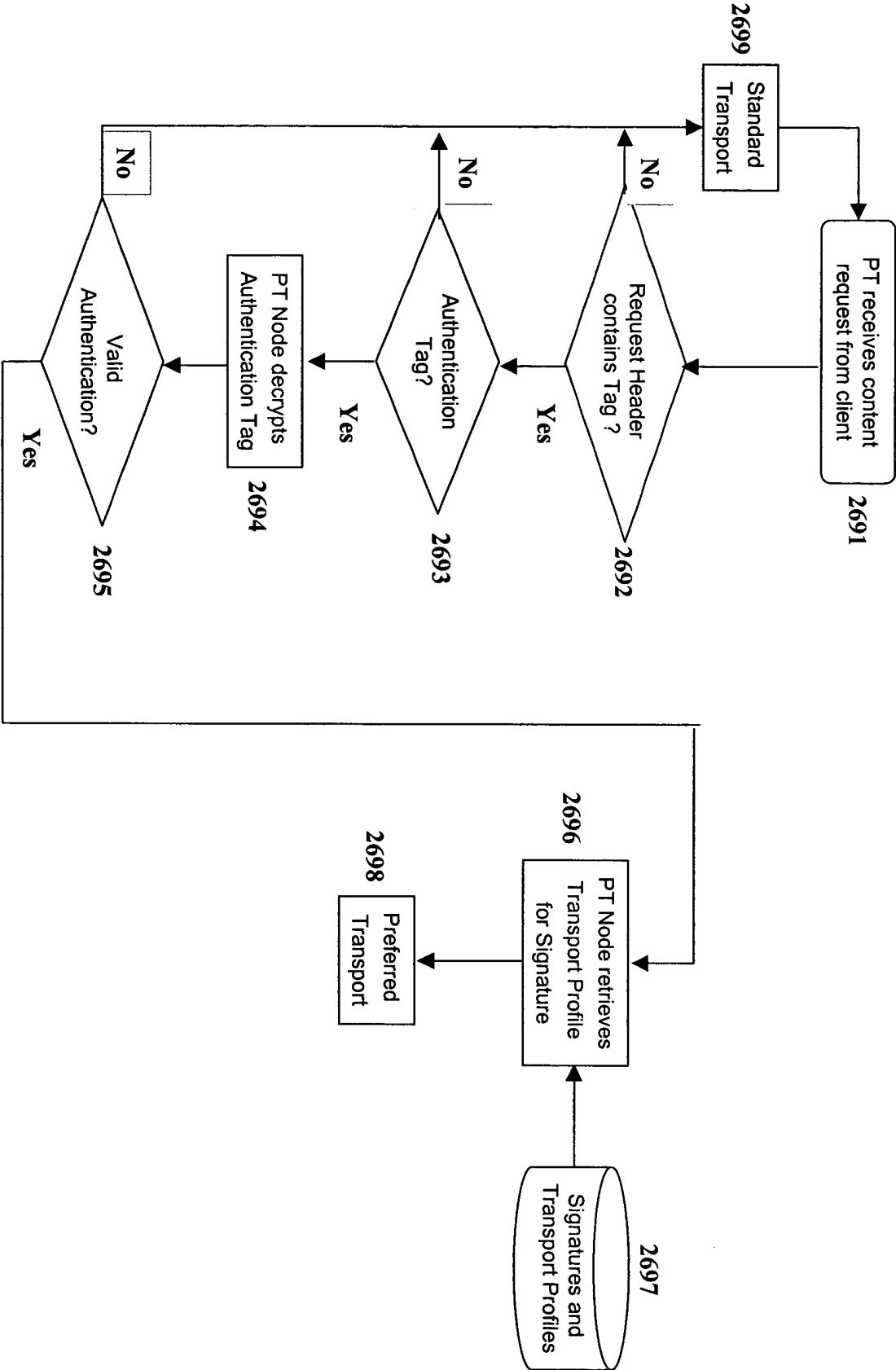
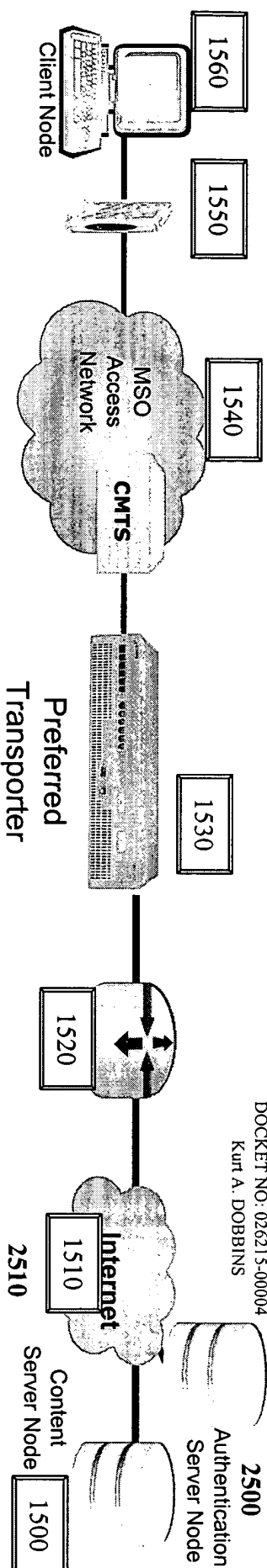


Figure 24



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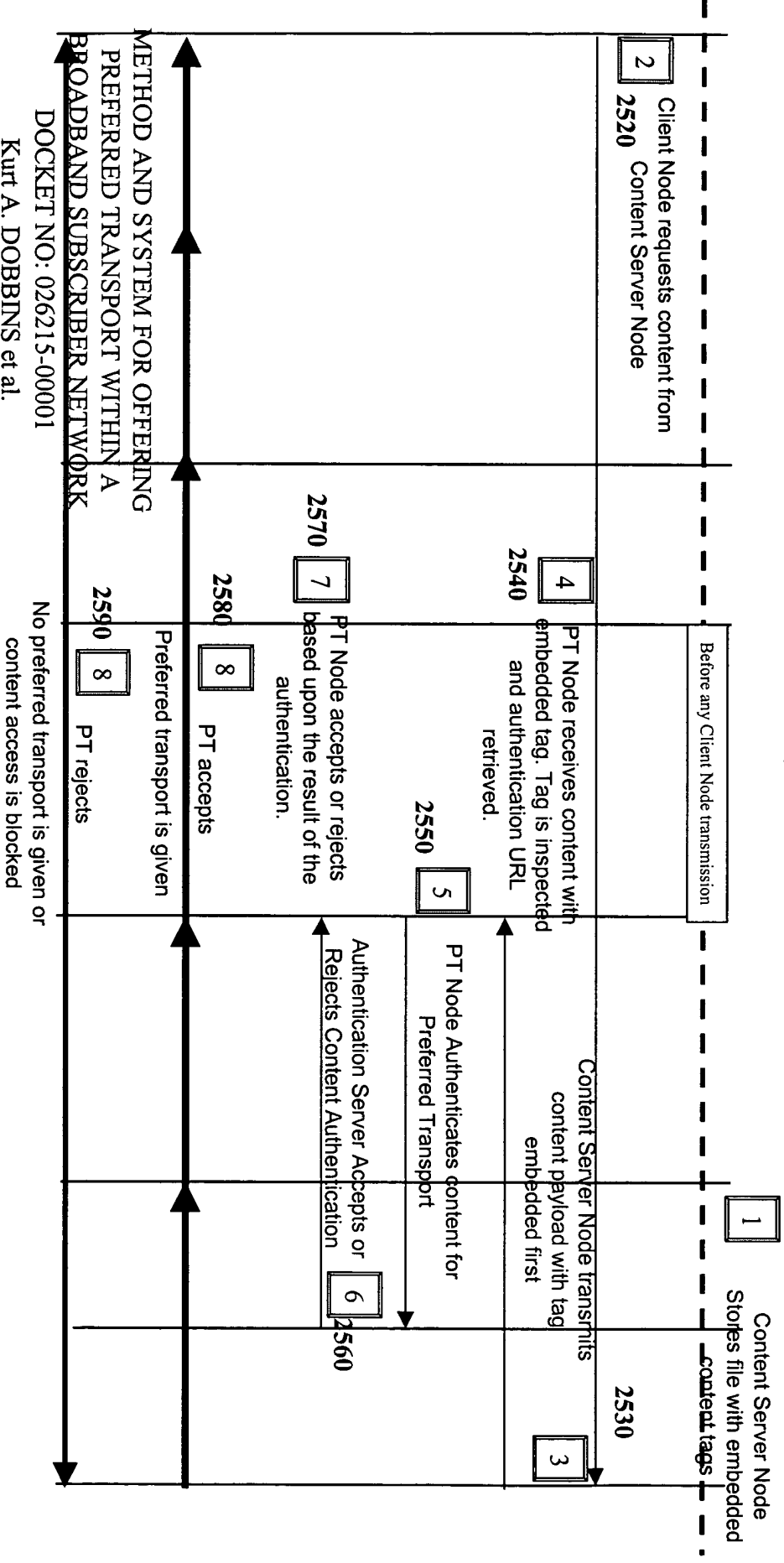


Figure 24a

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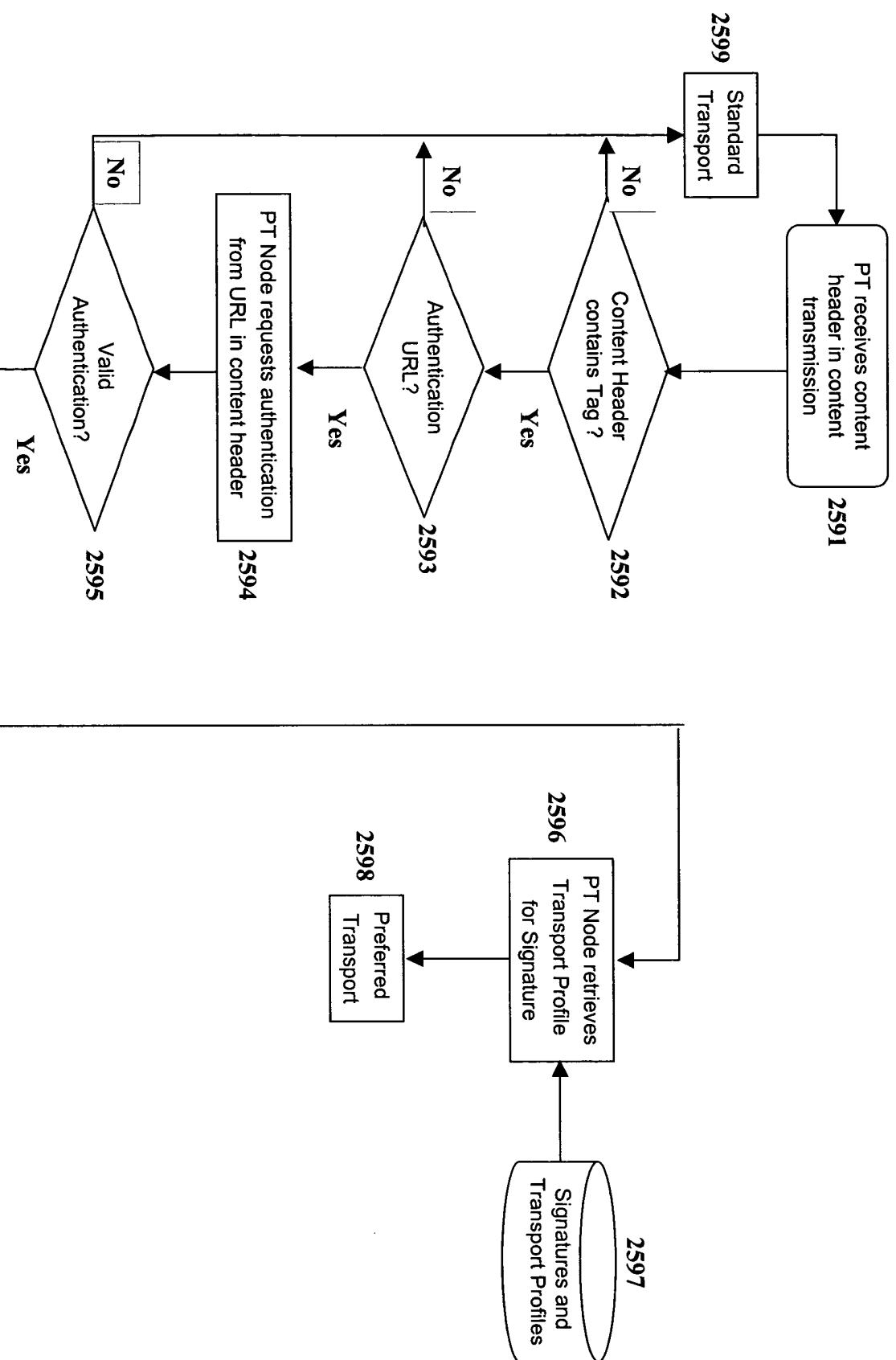


Figure 25

- ❑ **Leverage OLD Tree for Self-naming Tags**
 - Gives digital representation to textual names
 - Allows arbitrary hierarchy
 - Extensible with new content types
 - Packet encoding will use ASN.1 BER
- ❑ **Name Space Maintained by host**
 - Publish as Informational IETF MIB

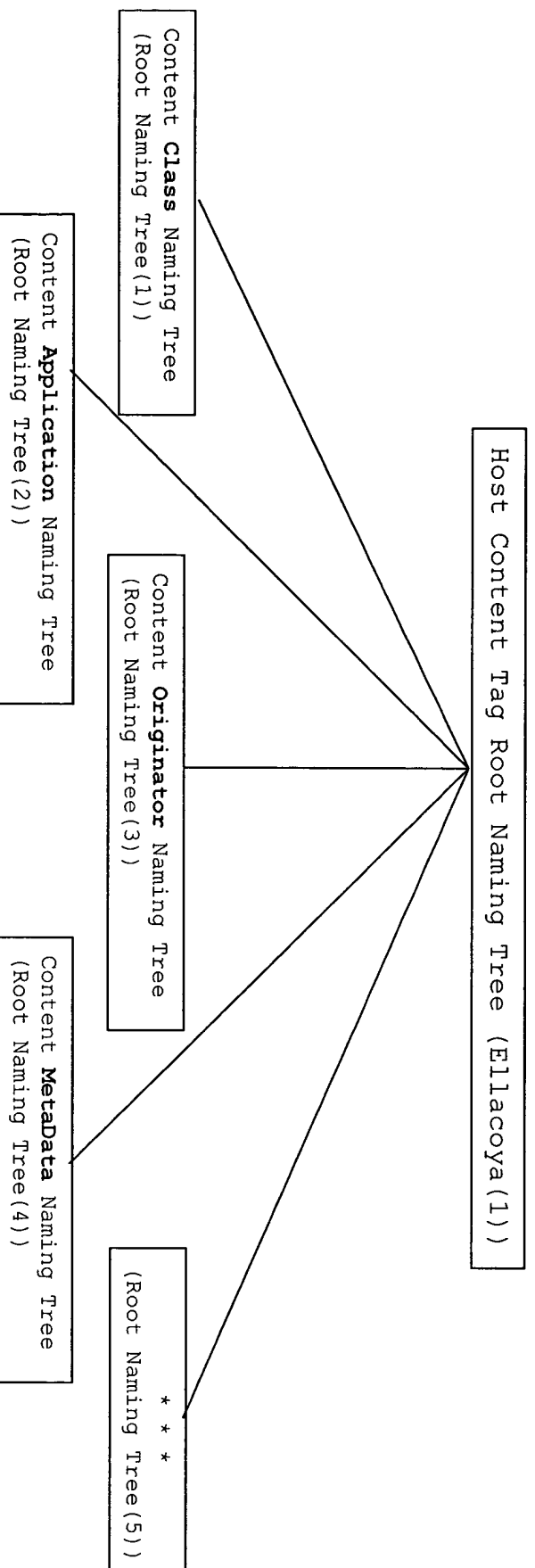


Figure 26

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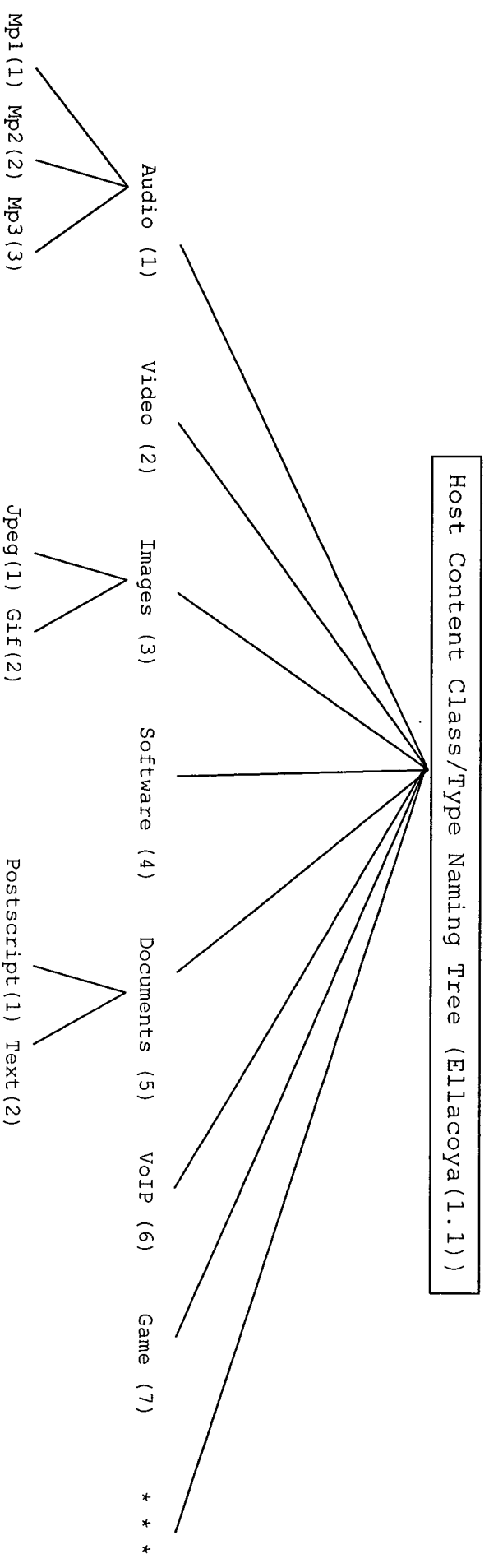


Figure 27

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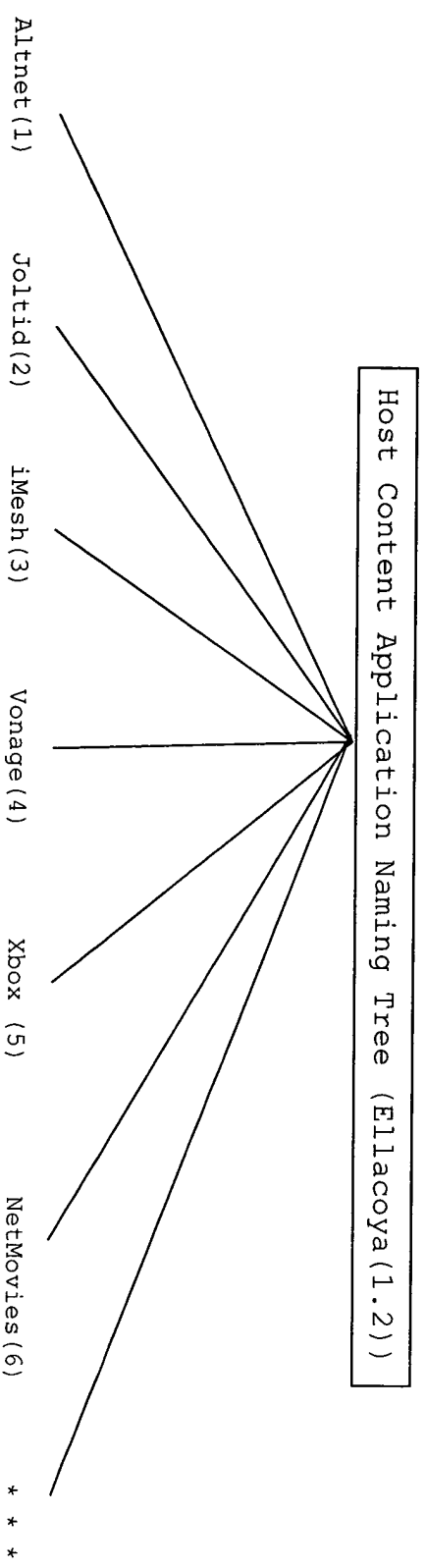


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